

Find the EXACT value of each using the Unit Circle.

1.  $\cos \frac{17\pi}{3}$

2.  $\tan(-510^\circ)$

3.  $\sin \frac{13\pi}{4}$

4.  $\tan \frac{7\pi}{2}$

5.  $\cos\left(-\frac{25\pi}{6}\right)$

6.  $\sin 1050^\circ$

7.  $\tan \frac{29\pi}{4}$

8.  $\cos 19\pi$

9.  $\sin 38\pi$

10. Use the given information to find the measure of all angles,  $\theta$ , that meet each condition.

Give  $\theta$  in degrees where  $0^\circ \leq \theta \leq 360^\circ$

a)  $\sin \theta = -\frac{\sqrt{3}}{2}$

b)  $\cos \theta = -\frac{\sqrt{2}}{2}$

c)  $\sin \theta = -1$

d)  $\tan \theta = \sqrt{3}$

11. Given  $\sin \theta = \frac{1}{2}$  and  $90^\circ \leq \theta \leq 270^\circ$  find  $\cos \theta$

12. Given  $\sin \theta < 0$  and  $\cos \theta = \frac{\sqrt{2}}{2}$  find the value of  $\theta$  in degrees.